

Table 7: Fatty acid profile results of a selection of crop quality samples from the 2019/20 season

Province	Region	g Fatty acids/100 g Fatty Acids																	
		C14:0	C16:0	C16:1	C17:0	C17:1	C18:0	C18:1 c	C18:2 c	C18:3n6	C18:3n3	C20:0	C20:1	C20:2	C21:0	C22:0	C22:1	C24:0	C24:1
North West	13	ND	9.9	ND	<LOQ	ND	19.72	55.1	ND	9.91	0.429	<LOQ	ND	ND	0.377	ND	<LOQ	ND	
	14	ND	9.9	ND	<LOQ	ND	21.27	53.0	ND	9.47	0.49	<LOQ	ND	ND	0.444	ND	<LOQ	ND	
	16	ND	10.3	<LOQ	ND	ND	20.98	53.3	ND	9.51	0.46	<LOQ	ND	ND	0.426	ND	<LOQ	ND	
	18	ND	9.7	ND	<LOQ	ND	20.39	53.7	ND	10.17	0.48	<LOQ	ND	ND	0.46	ND	<LOQ	ND	
	20	ND	10.9	<LOQ	<LOQ	ND	23.17	51.4	ND	7.74	0.52	<LOQ	ND	ND	0.451	ND	<LOQ	ND	
	Min	-	9.7	-	-	-	19.72	51.4	-	7.74	0.429	-	-	-	0.377	-	-	-	-
	Max	-	10.9	-	-	-	23.17	55.1	-	10.17	0.52	-	-	-	0.46	-	-	-	-
	N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Free State	21	ND	9.5	ND	<LOQ	ND	20.77	53.7	ND	9.60	0.52	<LOQ	ND	ND	0.60	ND	<LOQ	ND
		22	ND	10.3	ND	<LOQ	ND	18.51	55.8	ND	10.19	0.429	<LOQ	ND	ND	0.422	ND	ND	ND
23		ND	10.6	ND	<LOQ	ND	20.57	53.9	ND	9.78	0.418	<LOQ	ND	ND	0.409	ND	<LOQ	ND	
24		ND	10.2	ND	<LOQ	ND	20.08	53.9	ND	9.84	0.49	<LOQ	ND	ND	0.53	ND	<LOQ	ND	
26		ND	9.6	ND	<LOQ	ND	19.72	53.6	ND	10.50	0.56	<LOQ	ND	ND	0.76	ND	<LOQ	ND	
27		ND	9.2	ND	<LOQ	ND	22.02	53.2	ND	8.66	0.56	<LOQ	ND	ND	0.51	ND	<LOQ	ND	
28		ND	9.4	ND	ND	ND	20.89	52.5	ND	9.26	0.50	ND	ND	ND	1.61	ND	<LOQ	ND	
Min		-	9.2	-	-	-	18.51	52.5	-	8.66	0.418	-	-	-	0.409	-	-	-	-
Max		-	10.6	-	-	-	22.02	55.8	-	10.50	0.56	-	-	-	1.61	-	-	-	-
N		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Mpumalanga	29	ND	9.1	ND	<LOQ	ND	19.57	54.0	ND	10.96	0.48	<LOQ	ND	ND	0.445	ND	<LOQ	ND	
	30	ND	9.7	ND	<LOQ	ND	20.74	52.9	ND	9.75	0.47	<LOQ	ND	ND	0.88	ND	<LOQ	ND	
	31	ND	9.7	ND	<LOQ	ND	23.73	51.0	ND	8.48	0.46	<LOQ	ND	ND	0.72	ND	<LOQ	ND	
	32	ND	9.6	ND	<LOQ	ND	20.79	53.8	ND	9.81	0.451	<LOQ	ND	ND	0.363	ND	<LOQ	ND	
	33	ND	9.5	ND	<LOQ	ND	20.47	53.6	ND	9.99	0.49	<LOQ	ND	ND	0.51	ND	<LOQ	ND	
	Min	-	9.1	-	-	-	19.57	51.0	-	8.48	0.451	-	-	-	0.363	-	-	-	
	Max	-	9.7	-	-	-	23.73	54.0	-	10.96	0.49	-	-	-	0.88	-	-	-	
	N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	Gauteng	34	ND	10.0	ND	<LOQ	ND	19.44	54.6	ND	10.47	0.437	<LOQ	ND	ND	0.384	ND	<LOQ	ND
		35	ND	11.2	<LOQ	<LOQ	ND	27.66	47.6	ND	6.73	0.55	<LOQ	ND	ND	0.48	ND	<LOQ	ND
36		ND	10.6	ND	<LOQ	ND	19.67	54.3	ND	9.68	0.46	<LOQ	ND	ND	0.386	ND	<LOQ	ND	
KwaZulu-Natal	Min	-	9.1	-	-	-	18.51	47.6	-	6.73	0.418	-	-	-	0.363	-	-	-	
	Max	-	11.2	-	-	-	27.66	55.8	-	10.96	0.56	-	-	-	1.61	-	-	-	
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
RSA	34	ND	10.0	ND	<LOQ	ND	19.44	54.6	ND	10.47	0.437	<LOQ	ND	ND	0.384	ND	<LOQ	ND	
	35	ND	11.2	<LOQ	<LOQ	ND	27.66	47.6	ND	6.73	0.55	<LOQ	ND	ND	0.48	ND	<LOQ	ND	
	36	ND	10.6	ND	<LOQ	ND	19.67	54.3	ND	9.68	0.46	<LOQ	ND	ND	0.386	ND	<LOQ	ND	
RSA	Min	-	9.1	-	-	-	18.51	47.6	-	6.73	0.418	-	-	-	0.363	-	-	-	
	Max	-	11.2	-	-	-	27.66	55.8	-	10.96	0.56	-	-	-	1.61	-	-	-	
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	

Note:
 Limit of detection (LOD) = 0.09 g Fatty acid/100 g Fatty acids.
 Values below the limit of detection are reported as ND (not detected).
 Limit of quantitation (LOQ) = 0.28 g Fatty acid/100 g Fatty acids.
 Values below the limit of quantitation cannot be accurately quantified.